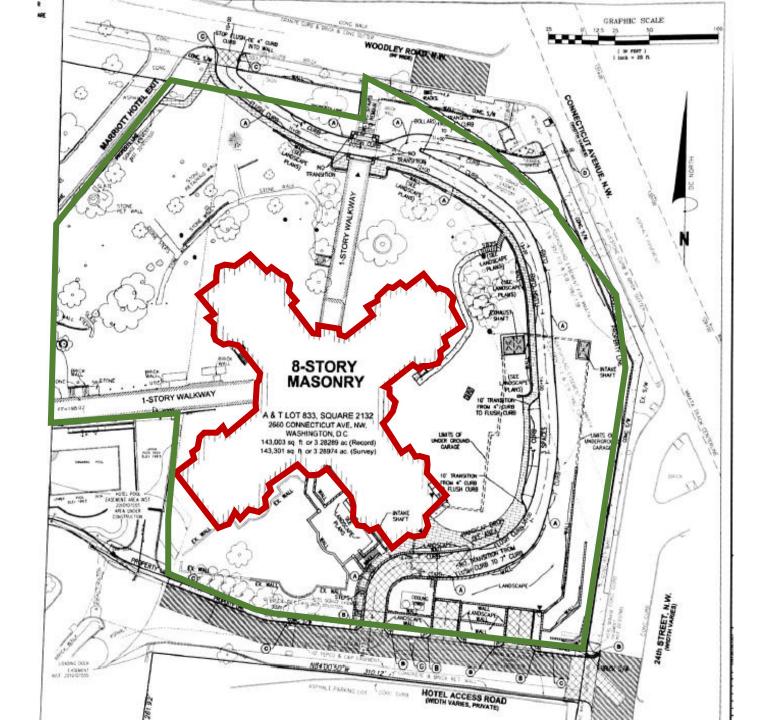
Site Drainage Areas (SDAs) vs.

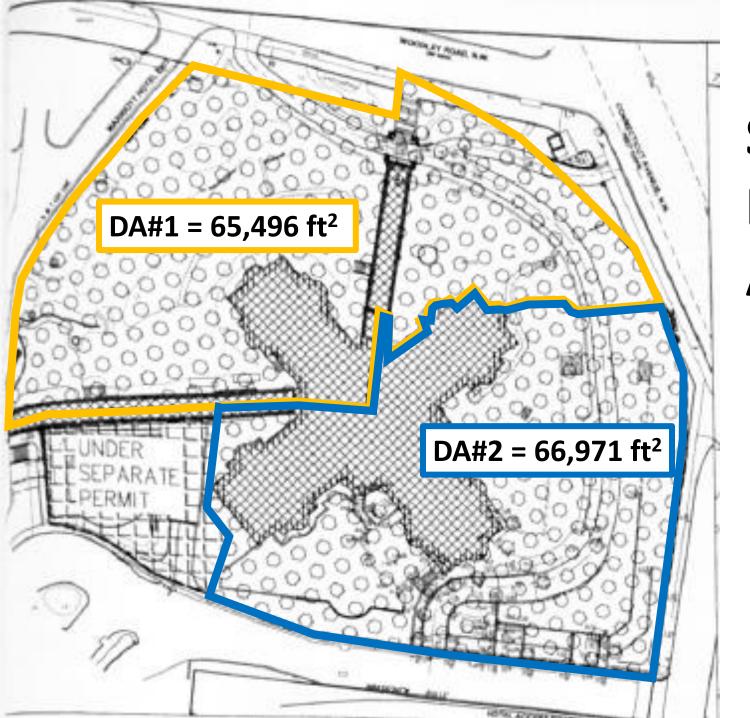
Contributing Drainage Areas (CDAs)

- Building is undergoing a complete renovation.
- Surrounding land is being regraded with new sidewalks and construction of an underground parking facility.

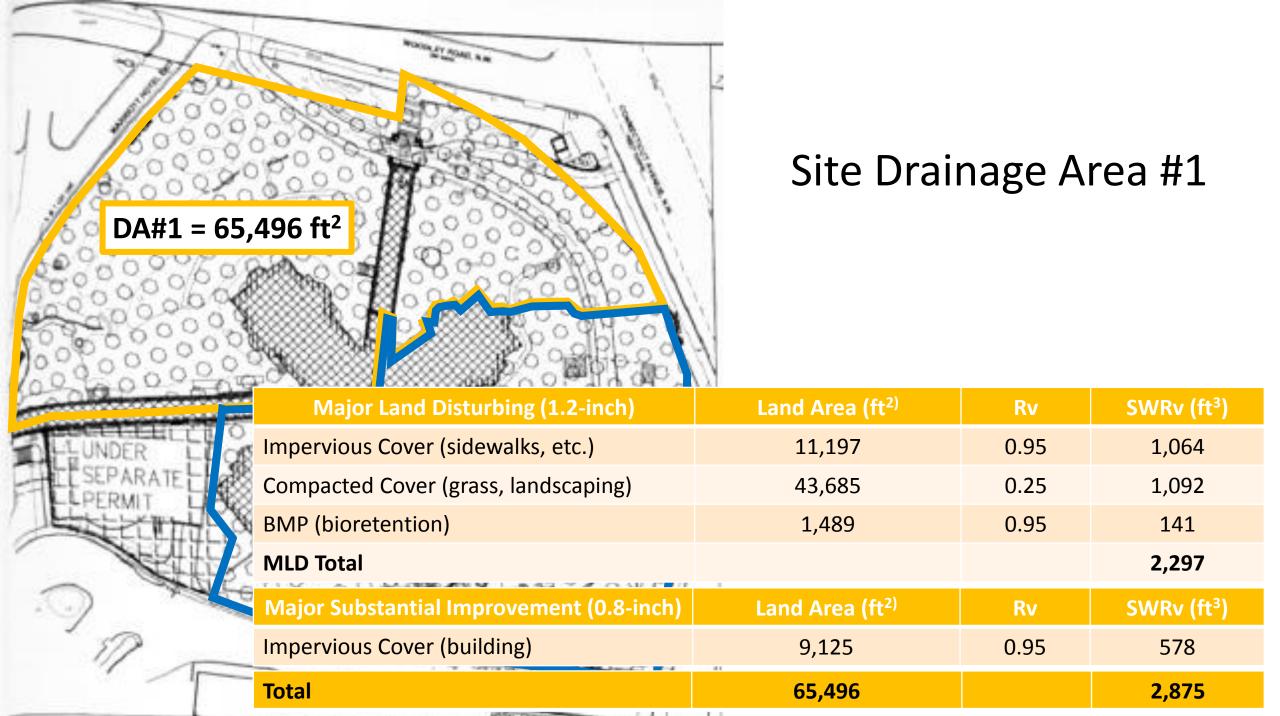
Building = Major Substantial Improvement (0.8")

Land Area = Major Land Disturbing (1.2")

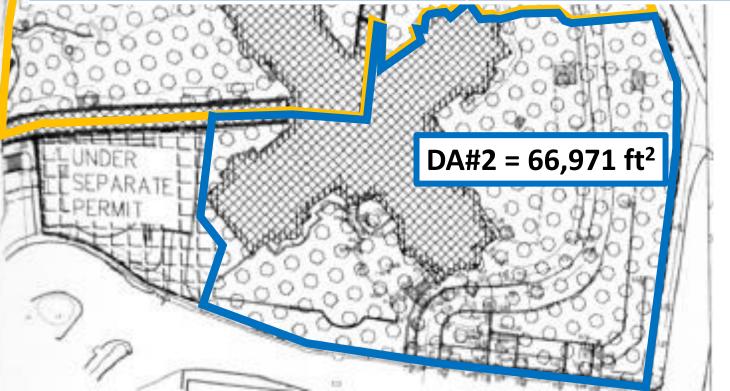




## Site Drainage Areas



| Major Land Disturbing (1.2-inch)         | Land Area (ft²)             | Rv   | SWRv (ft³) |
|--|-----------------------------|------|------------|
| Impervious Cover (sidewalks, etc.)       | 11,704                      | 0.95 | 1,112      |
| Compacted Cover (grass, landscaping)     | 27,289                      | 0.25 | 682        |
| BMP (bioretention, green roof)           | 9,878                       | 0.95 | 938        |
| MLD Total                                |                             |      | 2,732      |
| Major Substantial Improvement (0.8-inch) | Land Area (ft <sup>2)</sup> | Rv   | SWRv (ft³) |
| Impervious Cover (building)              | 18,100                      | 0.95 | 1,146      |
| Total                                    | 66,971                      |      | 3,878      |
| 55-0 4 75 000 40000000000 VED 0 100      | The second second           |      |            |



Site Drainage Area #2

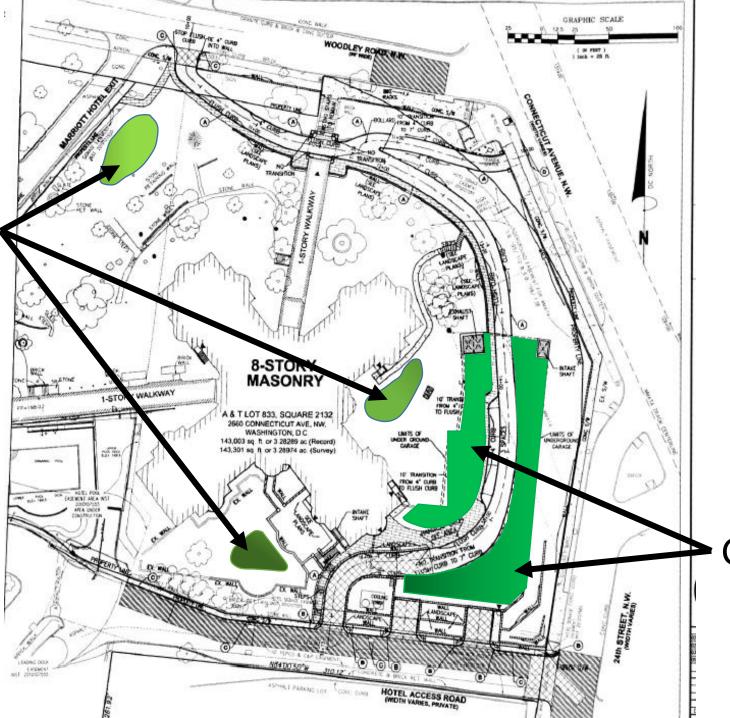
## Total SWRv for Site

| Site Drainage Area #1 | 2,875 ft <sup>3</sup> |
|-----------------------|-----------------------|
| Site Drainage Area #2 | 3,878 ft <sup>3</sup> |

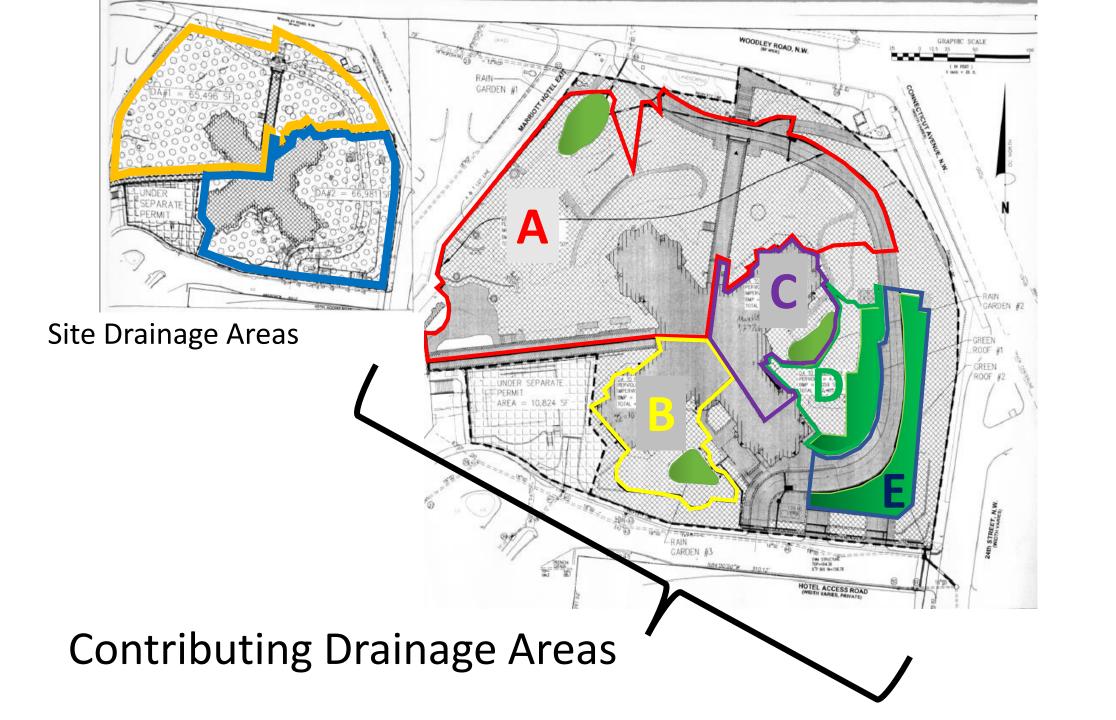
Total = 6,753

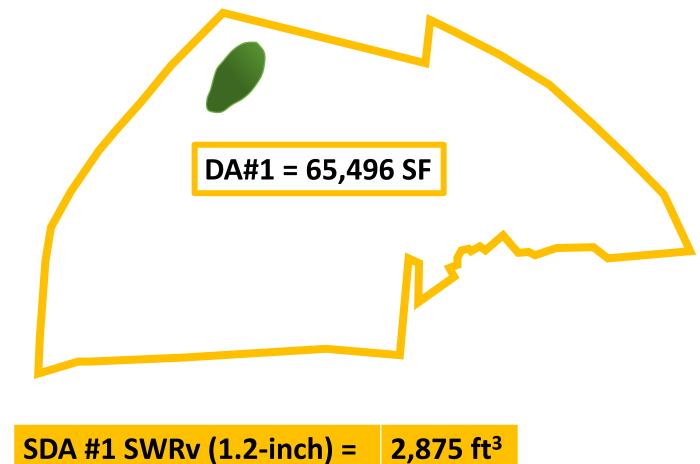
**BMP Locations** 

Bioretention

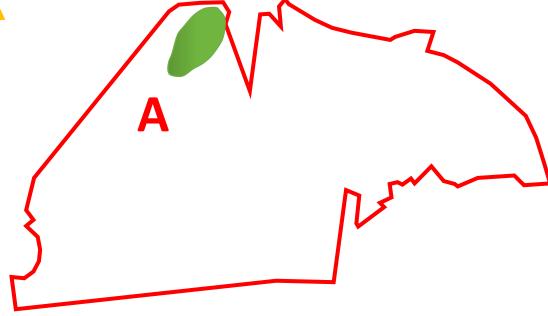


Green Roof



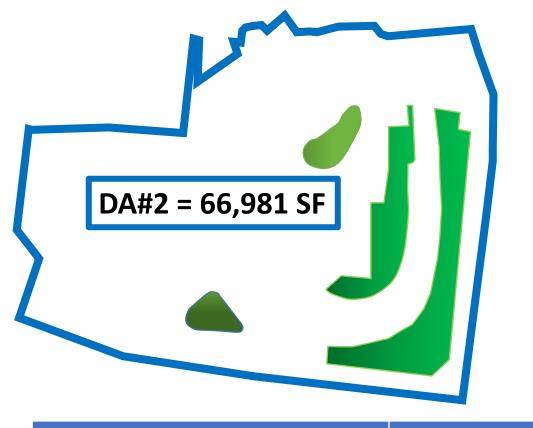


| Land Cover Type  | CDA<br>Area (ft²) | Rv   | SWRv (ft³)<br>(1.7-in) |
|------------------|-------------------|------|------------------------|
| Impervious Cover | 18,067            | 0.95 | 2,432                  |
| Compacted Cover  | 36,566            | 0.25 | 1,295                  |
| ВМР              | 1,489             | 0.95 | 200                    |
| Total            | 56,122            |      | 3,927                  |

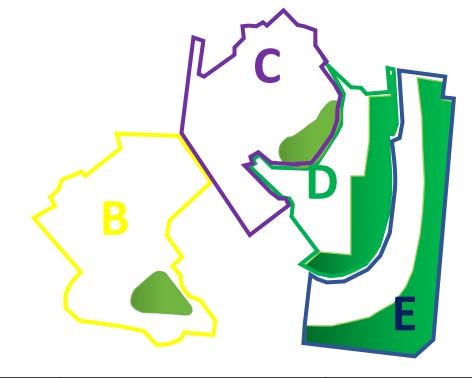


**Storage Volume Bioretention** 

3,076 ft<sup>3</sup>



SDA #2 SWRv (1.2-inch) = 3,878 ft<sup>3</sup>



| ВМР   | SWRv (ft³) (1.7-inch) | Storage Volume (ft <sup>3</sup> ) |
|-------|-----------------------|-----------------------------------|
| В     | 997                   | 1,047                             |
| С     | 1,314                 | 1,402                             |
| D     | 923                   | 859                               |
| Е     | 1,241                 | 1,157                             |
| Total | 4,475                 | 4,465                             |

**Maximum Retention Volume** 

4,327 ft<sup>3</sup>

## Total SWRv for Site

| Site Drainage Area #1 | 2,875 ft <sup>3</sup> |
|-----------------------|-----------------------|
| Site Drainage Area #2 | 3,878 ft <sup>3</sup> |

Total = 6,753

| Maximum Retention Volume BMP A      | 3,076 ft <sup>3</sup> |
|-------------------------------------|-----------------------|
| Maximum Retention Volume BMPs B - E | 4,327 ft <sup>3</sup> |

Total = 7,403

Met their stormwater obligation!